Attorney Docket No.: FORS-04012

## DECLARATION FOR PATENT APPLICATION

a below-named inventor, I hereby declare that:

Mesidence, post office address and citizenship are as stated next to my name. I believe I am an original, first and joint inventor of the three three

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PCT/US98/03194	PCT	Country Day/Month/Year I		Yes
Number	-			
the subject matter of each of the claim the subject matter of each of the 35, Vertice 37, Code of Federal Regulation of the content of the subject international filing date of the subject international filing date of the subject of	ims of this application is not d United States Code, § 112, I a ons, § 1.56(a) which occurred	isclosed in the prior	tv to disclo	ication(s) listed below and, insofar as tes application in the manner provided se material information as defined in prior application and the national or
08/851,588	05	/05/97		Pending
Application Serial No.	Fili	ng Date		Patented, Pending or Abandoned
	09	09/19/97		Pending
08/934,097  Application Serial No.	Fili	ng Date	_	Patented, Pending or Abandoned
09/034,205	03	/03/98		Pending
Application Serial No.	Fili	ng Date		Patented, Pending or Abandoned
	r that these statements were n prisonment or both, under § 1 idity of the application or any	on the know of the last of the	the United	ments made on information and belie willful false statements and the like s States Code and that such willful fals
			Date:	
Inventor's Signature:  Residence: 308 F Eagle Heights, Madison, WI 53705  Post Office Address: 308 F Eagle Heights, Madison, WI 53705			Citize	nship: Peoples Republic of China
Full Name of Second Joint Invent				
Inventor's Signature:			_ Date:	
Residence: 2523 Carriedale Court, Madison, WI 53711			_ Citize	enship: <u>Russia</u>
Post Office Address: 2523 Carrie	edale Court, Madison, WI 53	5711		

PATENT
Attorney Docket No.: FORS-04012

Full Name of Third Joint Inventor: James R/Prudent	
	Date: 7/3/00
Inventor's Signature:	Citizenship: United States of America
Residence: 3750 Country Greve Drive, Madison, WI 53719	Chizenship. Omted States of America
Post Office Address: 3759 Country Grove Drive, Madison, WI 53719	
Full Name of Fourth Inventor: Lance Fors	
Y	Date:
Inventor's Signature: Residence: 12 Hidden Hollow Trace, Madison, WI 53717	Citizenship: United States of America
Residence: 12 Hidden Honow Trace, Wadison, WI 53717	•
Post Office Address: 12 Hidden Hollow Trace, Madison, WI 53717	
Full Name of Fifth Joint Inventor: Bruce P. Neri	
Y	Date:
Inventor's Signature:  Residence: 5714 Kilkenny Place, Madison, WI 53711	Citizenship: United States of America
Post Office Address: 5714 Kilkenny Place, Madison, WI 53711	
Post Office Address: 3/14 Klikeliny Flace, Madison, W1 33/11	
Full Name of Sixth Joint Inventor: Mary Ann D. Brow	
	Date:
Inventor's Signature:	Citizenship: United States of America
Residence: 5905 Hammersley Road, Madison, WI 53711	
Post Office Address: 5905 Hammersley Road, Madison, WI 53711	
Full Name of Seventh Joint Inventor: Todd A. Anderson	
Inventor's Signature:	Date:
Residence: 1655 Capital Ave. #4, Madison, WI 53705	Citizenship: United States of America
Post Office Address: 1655 Capital Ave. #4, Madison, WI 53705	
#	
Full Name of Eighth Joint Inventor: James E. Dahlberg	
Inventor's Signature:	Date:
Residence: 1119 Merill Springs Road, Madison, WI 53705-1316	Citizenship: United States of America
Post Office Address: 1119 Merill Springs Road, Madison, WI 53705-1316	
Triangle II	
100 Mg 100 Mg 100 Mg 100 Mg	

Attorney Docket No.: FORS-04012

## DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Target-Dependent Reactions Using Structure-Bridging Oligonucleotides**, the specification of which was filed on 10/21/99 as Application Serial No. 09/402,618. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PCT/US98/03194	PCT	05/05/98	3	Yes	
Number	Country		ır Filed	Priority Claimed	
ereby claim the benefit under Title subject matter of each of the claim the first paragraph of Title 35, Unter 37, Code of Federal Regulation international filing date of this	s of this application is not di nited States Code, § 112, I a s, § 1.56(a) which occurred	isclosed in the prior United acknowledge the duty to G	d States app lisclose mat	erial information as defined in	
08/851,588	05/	/05/97		Pending	
Application Serial No.	- — Filii	ng Date	Pate	nted, Pending or Abandoned	
08/934,097	09	/19/97		Pending	
Application Serial No.	- Fili	Filing Date		nted, Pending or Abandoned	
Application Serial No. 09/034,205	03	/03/98		Pending	
Application Serial No.	- Fili	Filing Date		ented, Pending or Abandoned	
nereby declare that all statements me believed to be true; and further that are punishable by fine or improvements may jeopardize the validial Name of Sole or First Inventors	hat these statements were maisonment or both, under § 1 ty of the application or any	on the knowledge of the Un	mai wimu	laise statements and the mice s	
ventor's Signature:			Date:	11: COL:	
esidence: 308 F Eagle Heights, M	adison, WI 53705		Citizenship:	Peoples Republic of China	
ost Office Address: 308 F Eagle I	leights, Madison, W1 5370	)5			
all Name of Second Joint Inventor	: Victor I. Lyamichev				
ventor's Signature:			Date:		
esidence: 2523 Carriedale Court, Madison, WI 53711			Citizenship:	Russia	
Post Office Address: 2523 Carried:					

Attorney Docket No.: FORS-04012

### DECLARATION FOR PATENT APPLICATION

pelow2001 need inventor, I hereby declare that:

Messidence to st office address and citizenship are as stated next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled Target-Dependent Reactions Using Structure-Bridging Oligonucleotides, the specification of which was filed on 10/21/99 as Application Serial No. 09/402,618. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PCT/US98/03194	PCT	05/05/98	Yes	
Number	Country	Day/Month/Year Fi	led Priority Claimed	
hereby claim the benefit under T he subject matter of each of the cla	tims of this application is not di United States Code, § 112, I a ions, § 1.56(a) which occurred	isclosed in the prior United Sta acknowledge the duty to disclo	ication(s) listed below and, insofar as tes application in the manner provided ose material information as defined in e prior application and the national or	
08/851,588	05/	/05/97	Pending	
Application Social No.	Fili	ng Date	Patented, Pending or Abandoned	
Application Serial 140.	09.	/19/97	Pending	
Application Serial No.	Fili	ng Date	Patented, Pending or Abandoned	
09/034,205	03	/03/98	Pending	
Application Serial No.	Fili	ng Date	Patented, Pending or Abandoned	
are believed to be true: and furthe	er that these statements were mappisonment or both, under § 1 lidity of the application or any tor: Fang Dong	ade with the knowledge that value of Title 18 of the United patent issued thereon.  Date:	ements made on information and belie willful false statements and the like so States Code and that such willful false  July 6, 2000 enship: Peoples Republic of China	
Post Office Address: 308 F Eagl	le Heights, Madison, WI 5370	Date:	July 6, 200 0	
Inventor's Signature: 1/17 M Residence: 2523 Carriedale Cou	rt, Madison, WI 53711 // edale Court, Madison, WI 53	Citize	enship: Russia	

Attorney Docket No.: FORS-04012

Full Name of Third Joint Inventor: James R. Prudent	
Inventor's Signature:	Date:
Residence: 3750 Country Grove Drive, Madison, WI 53719	Citizenship: United States of America
Post Office Address: 3750 Country Grove Drive, Madison, WI 53719	
Full Name of Fourth Inventor: Lance Fors	9/-/-
Inventor's Signature:	Date:
Residence: 12 Hidden Hollow Trace, Madison, WI 53717	Citizenship: United States of America
Post Office Address: 12 Hidden Hollow Trace, Madison, WI 53717	
$\mathcal{L}(\mathcal{A})$	
Full Name of Fifth Joint Inventor: Bruce P. Neri	
2.	Date: 7/5/00
Inventor's Signature:	Date:
Residence: 5714 Kilkenny Place, Madison, WI 53711 W.L.	Citizenship: Onited States of America
Post Office Address: 5714 Kilkenny Place, Madison, WI 53711	
6-0	
Full Name of Sixth Joint Inventor: Mary Ann D. Brow	
$\mathcal{L}_{\mathcal{A}}(\mathcal{Y}) = \mathcal{L}_{\mathcal{A}}(\mathcal{Y})$	Date: 7/6/00
Inventor's Signature:	Citizenship: United States of America
Residence: 5905 Hammersley Road, Madison, WI 53711 W.	Citizensinp. Citizensinp.
Post Office Address: 5905 Hammersley Road, Madison, WI 53711	
Todd A Andorron	
Full Name of Seventh Joint Inventor: Todd A. Anderson	<i>f</i>
	Date: July 5 2000
Inventor's Signature: Odd Andrew WI 53705 UT	Citizenship: United States of America
Residence: 1655 Capital Ave. #4, Madison, WI 53705	
Post Office Address: 1655 Capital Ave. #4, Madison, WI 53705	
Full Name of Eighth Joint Inventor: James E. Dahlberg	
Full Name of Eighth John Inventor.	
Inventor's Signature:	Date:
Residence: 1119 Merill Springs Road, Madison, WI 53705-1316	Citizenship: United States of America
Post-Office Address: 1119 Merill Springs Road, Madison, WI 53705-1316	
Take in	

	Attorney Docket No.: FORS-04012
Full Name of Third Joint Inventor: James R. Prudent	
Apentor's Signature:	Date:
Resident: 3750 Country Grove Drive, Madison, WI 53719	Citizenship: United States of America
Post Office Address: 3750 Country Grove Drive, Madison, WI 53719	
Full Name of Fourth Inventor: Lance Fors	
Inventor's Signature:	Date:
Residence: 12 Hidden Hollow Trace, Madison, WI 53717	Citizenship: United States of America
Post Office Address: 12 Hidden Hollow Trace, Madison, WI 53717	
Full Name of Fifth Joint Inventor: Bruce P. Neri	
Inventor's Signature:	Date:
Residence: 5714 Kilkenny Place, Madison, WI 53711	Citizenship: United States of America
Post Office Address: 5714 Kilkenny Place, Madison, WI 53711	
10st 011100 / tdutoss.	
Full Name of Sixth Joint Inventor: Mary Ann D. Brow	
Inventor's Signature:	Date:
Residence: 5905 Hammersley Road, Madison, WI 53711	Citizenship: United States of America
Post Office Address: 5905 Hammersley Road, Madison, WI 53711	
in a	
Full Name of Seventh Joint Inventor: Todd A. Anderson	
Inventor's Signature:	_ Date:
Residence: 1655 Capital Ave. #4, Madison, WI 53705	Citizenship: United States of America
Post Office Address: 1655 Capital Ave. #4, Madison, WI 53705	
1	
Full Name of Eighth Joint Inventor: James E. Dahlberg	
	Date:
Inventor's Signature:	Citizenship: United States of America
Residence: 1119 Merill Springs Road, Madison, WI 33705-1316	Chizenship: Officed States of America
Post Office Address: 1119 Merill Springs Road, Madison, WI 53705-1316	

7.	Certain Requirements under 35 U.S.C. 371 were previously submitted by the applicant on, namely:					
		1				
18.	Authori	zation To Charge Additiona	l Fees and Credit (	Overpayment		
	<u>X</u>	The Commissioner is hereb	by authorized to char	ge payment of a tion, filing fees,	lees for presentation of on	y be tra
		claims, and surcharge for i	filing late declaration:	s to Deposit Acc	Offit Mo. Agarazo.	
19.	Return	Receipt Postcard				
	X	Enclosed.				
						Les COM
Dated:	October 2	1, 1999		Day.	Kamrin T. MacKnight	egingur_
					Registration No.: 38,230	) 
					MEDLEN & CARROLL, I 220 Montgomery Street San Francisco, Californ	, Suite 2200
					(415) 705-8410	14 7 120 .
					•	
	*					
						•

# 0/PCT Rec'd 1 8 JUL **200**

Attorney Docket No.: FORS-04012



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Fang Dong et al.

Group No.:

Serial No.:

09/402,618

Examiner:

Filed:

10/21/99

Entitled:

Target-Dependent Reactions Using Structure-Bridging Oligonucleotides

### POWER OF ATTORNEY BY ASSIGNEE

**Assistant Commissioner for Patents** Washington, D.C. 20231

Third Wave Technologies, Inc., as Assignee of record of the entire interest of the above-identified patent application, hereby appoints the members of the firm of MEDLEN & CARROLL, LLP, a firm composed of:

Virginia S. Medlen

(Reg. No. 32,050)

Maha A. Hamdan

(Reg. No. 43,655)

Peter G. Carroll

(Reg. No. 32,837)

J. Mitchell Jones

(Reg. No. 44,174) (Reg. No. 45,225)

Kamrin T. MacKnight David A. Casimir

(Reg. No. 38,230) (Reg. No. 42,395) David J. Wilson Jason R. Bond

(Reg. No. P-45,439)

as its attorneys with full power of substitution to prosecute this application and transact all business in the Patent and Trademark Office in connection therewith.

Please direct all future correspondence and telephone calls regarding this application to:

David A. Casimir

MEDLEN & CARROLL, LLP

220 Montgomery Street, Suite 2200

Telephone: 415/705-8410

San Francisco, California 94104

415/397-8338 Facsimile:

I hereby certify that the Assignment document filed with the application or filed subsequent to the filing date of the application, has been reviewed and I hereby certify that, to the best of my knowledge and belief, title is with Third Wave Technologies, Inc.

Title:

Name: \_

President and CEO

Third Wave Technologies, Inc. 502 South Rosa Road

Madison, WI 53719

Applicant / Patentee: Fang Dong et al.

Serial No.:

09/402,618 10/21/99

Target-Dependent Reactions Using Structure-Bridging Oligonucleotides

FIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR § 1.9(c) - SMALL BUSINESS CONCERN)

I hereby declare that I am an official of the small business concern empowered to act on behalf of the concern identified below:

> Third Wave Technologies, Inc. 502 South Rosa Road, Madison, WI 53719

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR §§ 121.3-18, and reproduced in 37 CFR § 1.9(d), for purposes of paying reduced fees under §§ 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled Target-Dependent Reactions Using Structure-Bridging Oligonucleotides by inventors named Fang Dong et al., described in Application Serial No. 09/402,618, filed 10/21/99.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR § 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Date: 7/7	100
-----------	-----

Title: President and CEO